

FIG. 1

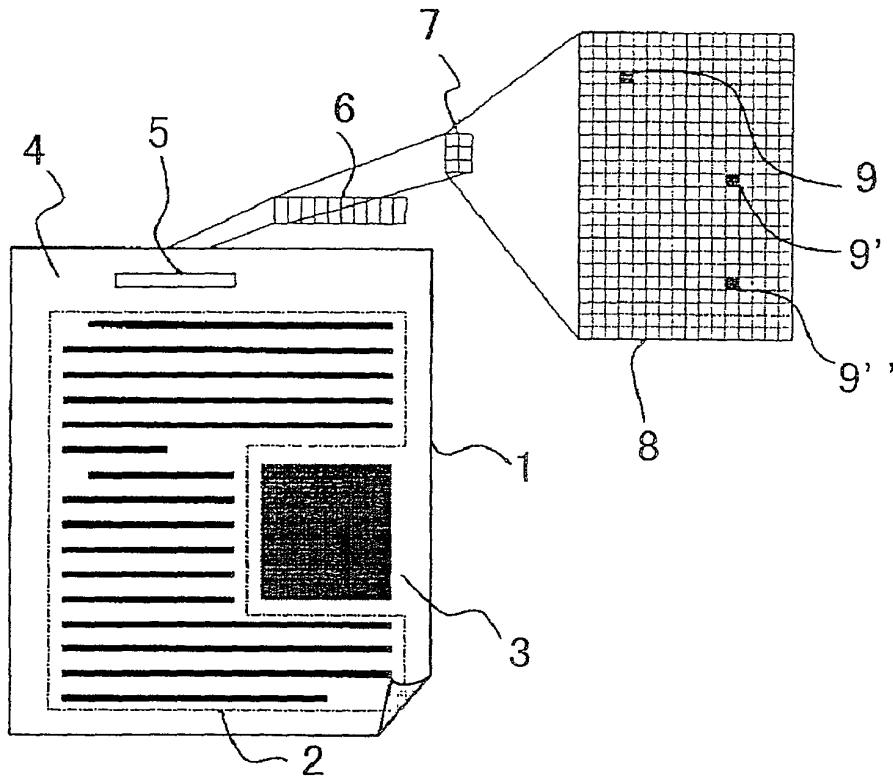


FIG. 2

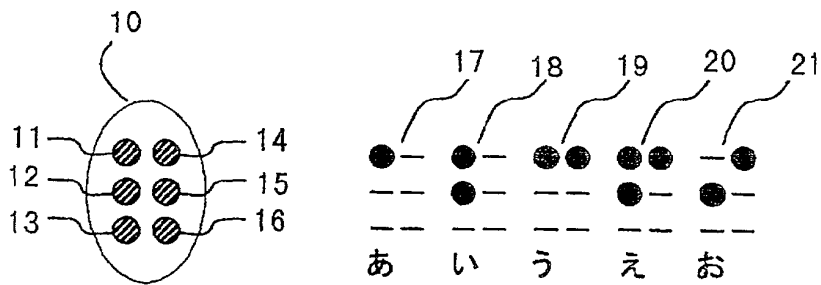


FIG. 3

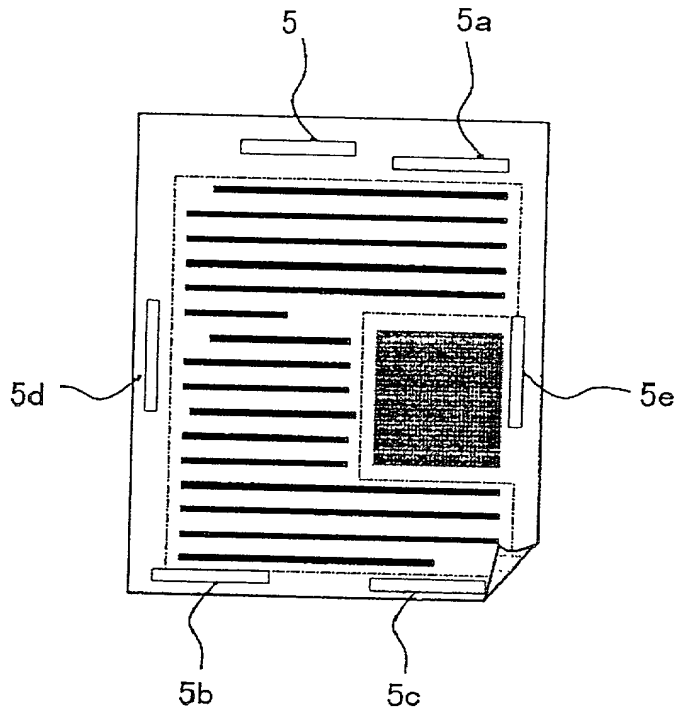


FIG. 4

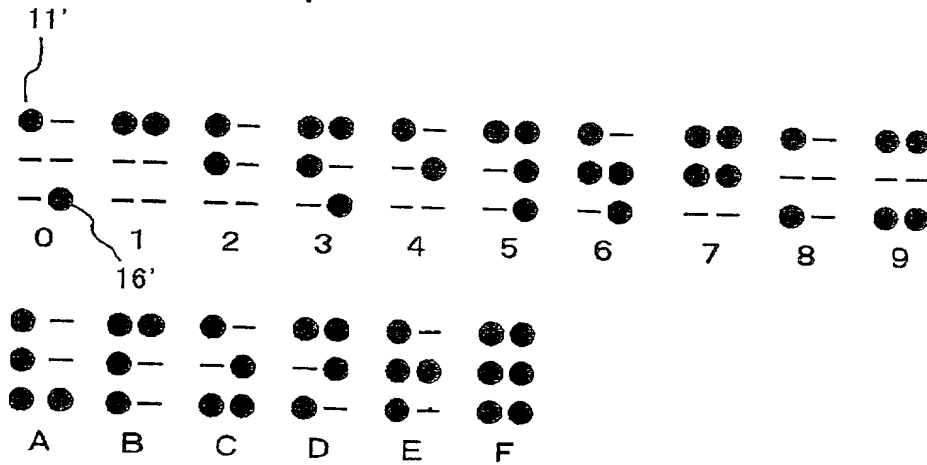
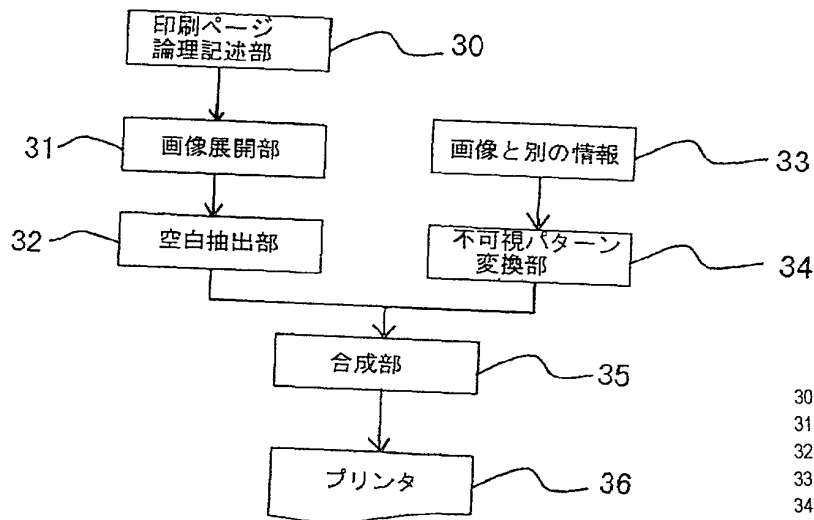
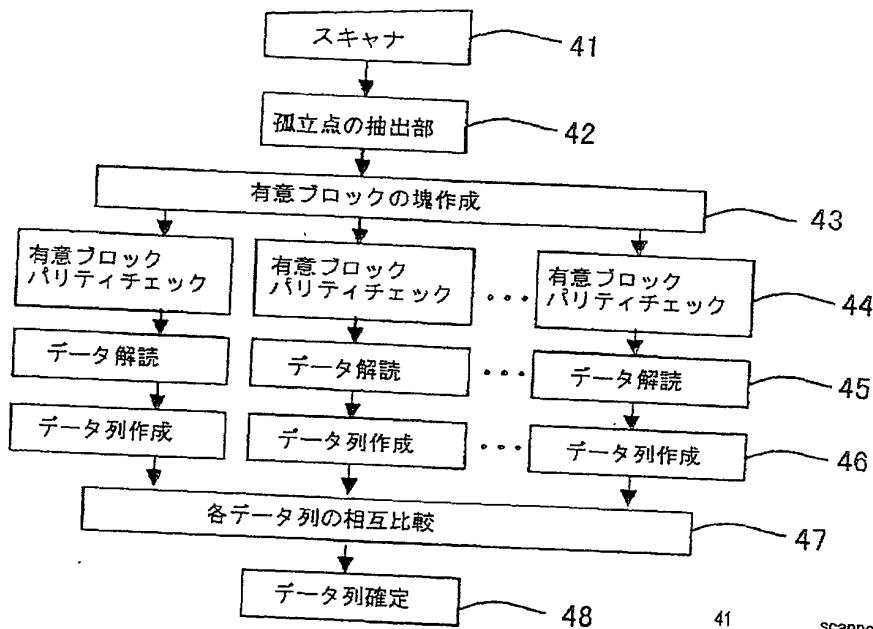


FIG. 5



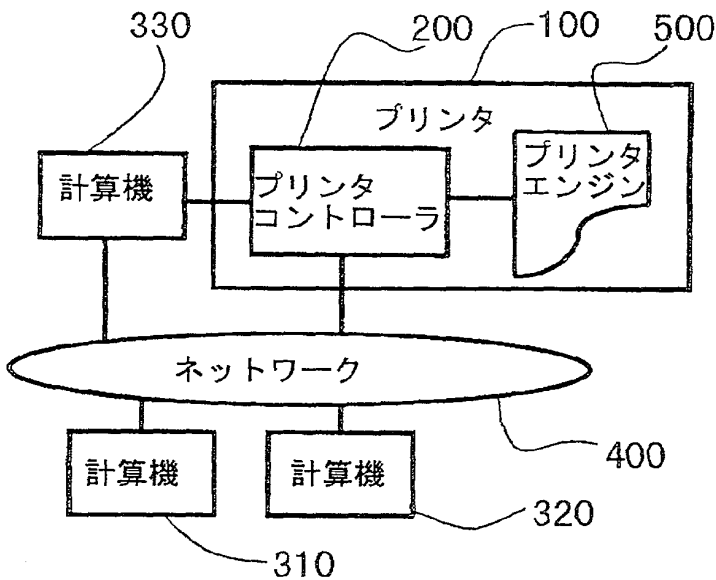
- 30 logic description part
- 31 image development part
- 32 blank extraction part
- 33 information
- 34 invisible pattern conversion part
- 35 composing part
- 36 printer

FIG. 6



- 41 scanner
- 42 extract isolated points
- 43 generate a cluster of significant blocks
- 44 parity check the significant blocks
- 45 decode data
- 46 generate data trains
- 47 compare the data trains
- 48 define data

FIG. 7



310, 320, 330 computer
100 printer
200 printer controller
500 printer engine
400 network

620 OS kernel part
610 communication part
2000 printer configuration management service part
2200 archive
2230 archive management service part
2700 document format conversion part
2710 PDL format conversion part
2720 image format conversion part
2110 spool control service part
2100 spool
2330 archive storage type 1 part
2340 archive storage type 3 part
2310 depicting part
2320 compressing part
2500 output main part
2600 engine output part

FIG. 8

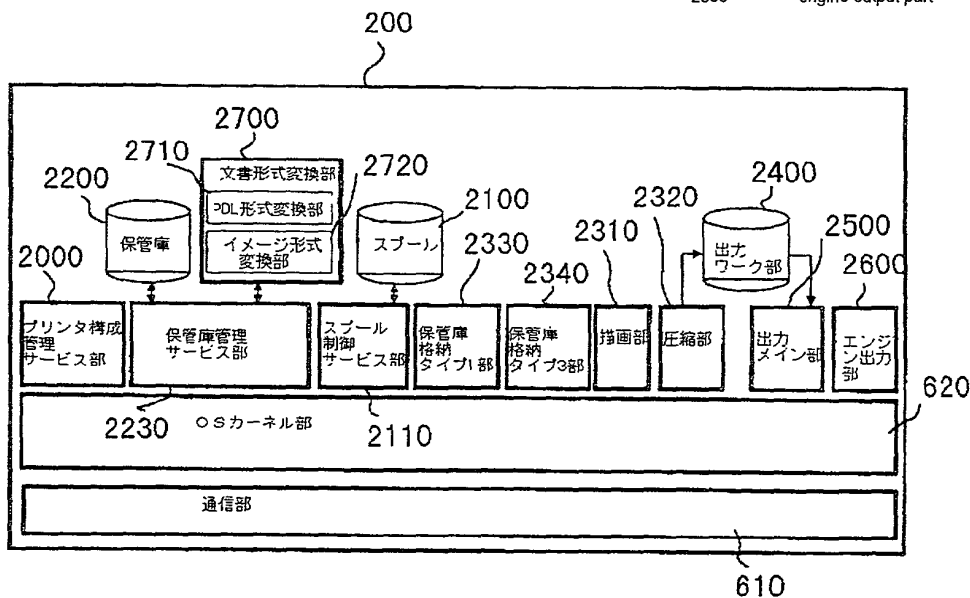
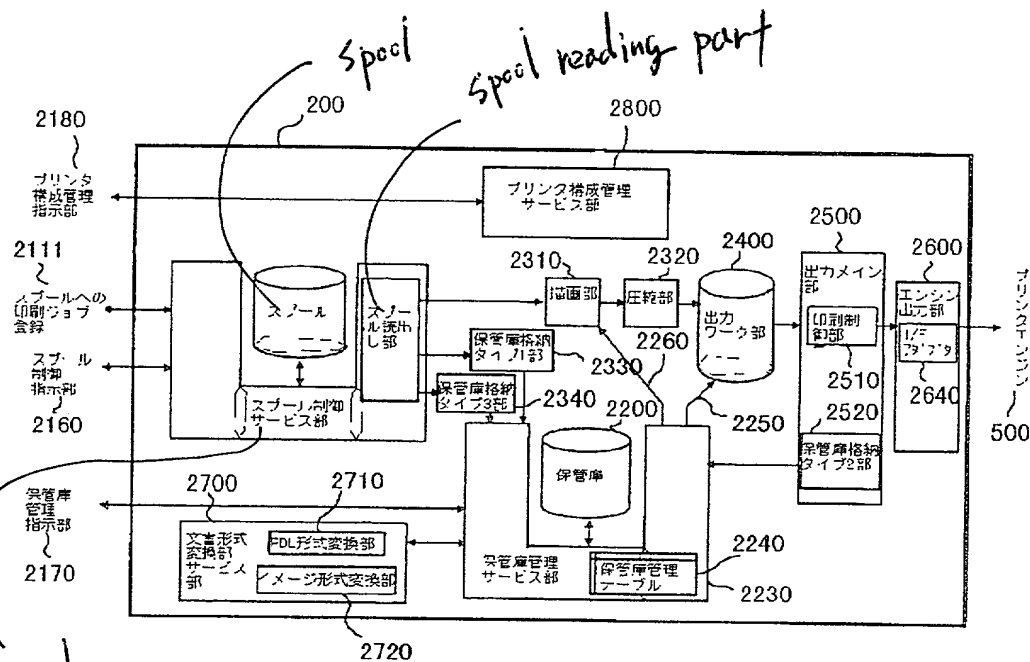


FIG. 9

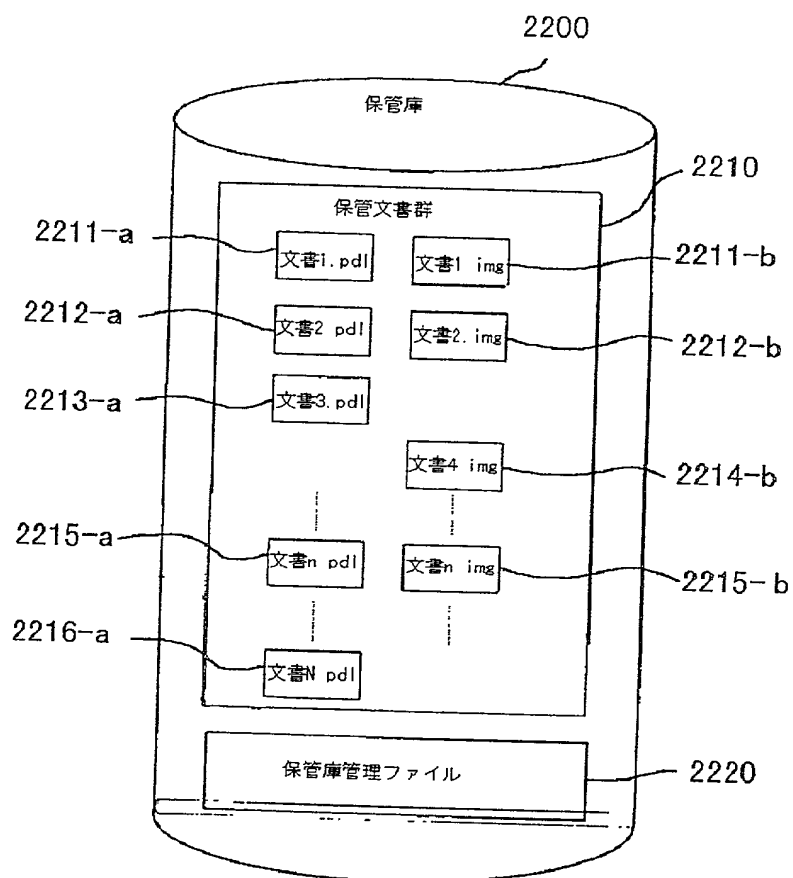


Spool
control
service
part

2180 printer configuration management designating part
2111 register the print job into the spool
2160 spool control designating part
2170 archive management designating part

2700 document format conversion part
2710 PDL format conversion part
2720 image format conversion part
2800 printer configuration management service part
2310 depicting part
2320 compressing part
2400 output work part
2330 archive storage type 1 part
2340 archive storage type 3 part
2240 archive management table
2230 archive management service part
2500 output main part
2510 print control part
2520 archive storage type 2 part
2600 engine output part
2640 I/F adaptor
500 to printer engine

FIG. 10



2200 archive
2210 archived document group

2211-a to 2216-a, 2211-b to 2216-b
document 1 to document N